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	UMY-038	
	Zuoshang Xu	인
SPE	CIFIC RNA INTERFERENCE	U.S. P
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ST	MS Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450	007
mpute ide ar	M or CD-R in duplicate, large table or er Program (Appendix) ad/or Amino Acid Sequence Submission all necessary)	
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	on Sequence Listing on:  CD-ROM or CD-R (2 copies); or ii. X Paper nents verifying identity of above copies	
CCC	OMPANYING APPLICATION PARTS	コ
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nen th	3.73(b) Statement Power of Attorney  Translation Document (if applicable)	
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turn F nould rtified	Receipt Postcard (MPEP 503) be specifically itemized) Copy of Priority Document(s) priority is claimed)	
npubl	ication Request under 35 U.S.C. 122 (b)(2)(B)(i). It must attach form PTO/SB/35 or its equivalent.  Certificate of Express Mailing (1 page)	
inforn	nation below and in the first sentence of the	$\Box$
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	Art Unit:	
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DRE OR	Correspondence address below	$\exists$

		ey Docket No.	UMY-038						
1		nventor	Zuoshang Xu		0				
PATENT APPLICATION TRANSMITTAL	Title	ALLELE-SPE	ECIFIC RNA INTERFERENCE		.S. P				
(Only for new nonprovisional applications under 37 CFR 1.53(b))		L			<u> </u>				
	ss Mail Label No.	EV 35422880	5 US	. 2					
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application cor	MS Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450								
1. X Fee Transmittal Form (e.g., PTO/SB/17)	7. CD-ROM or CD-R in duplicate, large table or								
(Submit an original, and a duplicate for fee processing)  Applicant claims small entity status.  See 37 CFR 1.27.	Nucleotide and/or Amino Acid Sequence Submission  (if applicable, all necessary)								
(preferred arrangement set forth below) - Descriptive title of the invention		b. Specificati	ion Sequence Listing c	n:					
Cross Reference to Related Applications     Statement Regarding Fed sponsored R & D		j	CD-ROM or CD-R (2 copies); or ii. X Paper						
Reference to sequence listing, a table,     or a computer program listing appendix		c. X Statements verifying identity of above copies							
- Background of the Invention - Brief Summary of the Invention		ACCOMPANYING APPLICATION PARTS							
Brief Description of the Drawings (if filed)     Detailed Description	Assignment Papers (cover sheet & document(s))								
- Claim(s) - Abstract of the Disclosure		10. 37 CFR 3.73(b) Statement (when there is an assignee) Power of Attorney							
4. X Drawing(s) (35 U.S.C. 113) [Total Sheets ]	I ————————————————————————————————————	Translation Document	(if applicable)						
5. Oath or Declaration [Total Sheets	12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations								
a. Newly executed (original or copy)	13. Preliminary Amendment								
b. Copy from a prior application (37 CFR 1.63(d))  (for continuation/divisional with Box 18 completed)	14. X Return Receipt Postcard (MPEP 503) (Should be specifically itemized)								
i. DELETION OF INVENTOR(S)	15. Certified Copy of Priority Document(s) (If foreign priority is claimed)								
Signed statement attached deleting inventor(s) named in the prior application,	Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i).								
see 37 CFR 1.63(d)(2) and 1.33(b).	Applicant must attach form PTO/SB/35 or its equivalent.								
6. X Application Data Sheet. See 37 CFR 1.76	17. X Other:								
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the									
specification following the title, or in an Application Data Sheet  Continuation Divisional Continuation		CFR 1.76: CIP) of prior applic	ration No :						
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Prior application information: Examiner  For CONTINUATION OR DIVISIONAL APPS only: The entire	disclosu	re of the prior applic	Art Unit: ation, from which an o	ath or declaration is supplied	_				
under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.									
19. COR	RESPO	NDENCE ADDRE	SS						
X Customer Number: 00959		OR	Correspond	ence address below					
Name LAHIVE & COCKFIELD, LLP									
Address 28 State Street									
City Boston State		MA	Zip Code	02109					
	ephone	(617) 227-740	00 Fax	(617) 742-4214					
Name (Print/Type) Debra J. Milasincia	7	Registration N	No. (Attorney/Agent)	46,931					
Signature	71	$\overline{\wedge}$	Date N	lovember 4, 2003					
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Dated: November 4, 2003

Signature:

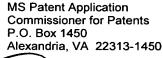
(Debra J. Milasincic)

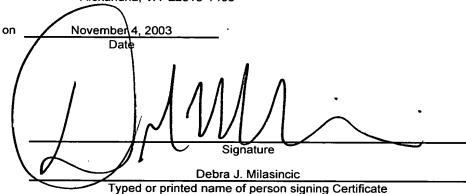
PTO/SB/17 (10-03)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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FEE TRANSMITTAL  for FY 2004  Effective 10/01/2003, Patent fees are subject to annual revision.  X Applicant claims small entity status. See 37 CFR 1.27  TOTAL AMOUNT OF PAYMENT (\$) 677.00  METHOD OF PAYMENT (check all that apply)  Check Card Order Other None  V Deposit Account:  Complete if Known  Application Number Not Yet Assigned  Filing Date Concurrently Herewith  First Named Inventor Zuoshang Xu  Examiner Name Not Yet Assigned  Art Unit N/A  Attorney Docket No. UMY-038  METHOD OF PAYMENT (check all that apply)  FEE CALCULATION (continued)  3. ADDITIONAL FEES								
Effective 10/01/2003, Patent fees are subject to annual revision.  X Applicant claims small entity status. See 37 CFR 1.27  TOTAL AMOUNT OF PAYMENT (\$) 677.00  METHOD OF PAYMENT (check all that apply)  Check Card Order Other None  See 37 CFR 1.27  Art Unit N/A  Attorney Docket No. UMY-038  FIRST Named Inventor Zuoshang Xu  Examiner Name Not Yet Assigned  Art Unit N/A  Attorney Docket No. UMY-038  See 37 CFR 1.27  Art Unit N/A  Attorney Docket No. UMY-038  See CALCULATION (continued)  Check Order Other None  3. ADDITIONAL FEES								
Effective 10/01/2003, Patent fees are subject to annual revision.  X Applicant claims small entity status. See 37 CFR 1.27  Art Unit  N/A  TOTAL AMOUNT OF PAYMENT  (\$) 677.00  Attorney Docket No.  UMY-038  METHOD OF PAYMENT (check all that apply)  FEE CALCULATION (continued)  Check  Credit  Condit  Order  Other  None  3. ADDITIONAL FEES								
X Applicant claims small entity status. See 37 CFR 1.27  Art Unit  N/A  TOTAL AMOUNT OF PAYMENT  (\$) 677.00  Attorney Docket No.  UMY-038  METHOD OF PAYMENT (check all that apply)  FEE CALCULATION (continued)  Check  Credit Card  Other None  Other None  3. ADDITIONAL FEES								
TOTAL AMOUNT OF PAYMENT (\$) 677.00 Attorney Docket No. UMY-038  METHOD OF PAYMENT (check all that apply) FEE CALCULATION (continued)  Check Card Order Other None 3. ADDITIONAL FEES								
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Check Credit Money Order Other None 3. ADDITIONAL FEES								
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Deposit Large Entity Small Entity								
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Deposit    John P. Cook Fold II D.   1051 130 2051 65 Surcharge – late filing fee or oath								
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The Director is authorized to: (check all that apply)								
X Charge fee(s) indicated below X Credit any overpayments 1053 130 1053 130 Non-English specification								
Charge any additional fee(s) or any underpayment of fee(s)  1812 2,520 1812 2,520 For filing a request for ex parte reexamination								
Charge fee(s) indicated below, except for the filing fee  1804 920* Requesting publication of SIR prior to Examiner action								
to the above-identified deposit account.  1805 1,840* Requesting publication of SIR after Examiner action								
FEE CALCULATION 1251 110 2251 55 Extension for reply within first month								
1. BASIC FILING FEE 1252 420 2252 210 Extension for reply within second month								
Large Entity Small Entity 1253 950 2253 475 Extension for reply within third month  Fee Fee Fee Fee Fee Description Fee Paid 1354 1480 2354 740 Extension for reply within third month								
Code (\$) Code (\$)								
1001 770 2001 385 Utility filing fee 385.00 1255 2,010 2255 1,005 Extension for reply within fifth month 1002 340 2002 170 Design filing fee 1401 330 2401 165 Notice of Appeal								
1002 340 2002 170 Design filing fee   1401 330 2401 165 Notice of Appeal 1402 330 2402 165 Filing a brief in support of an appeal								
1004 770 2004 385 Reissue filing fee 1403 290 2403 145 Request for oral hearing								
1005 160 2005 80 Provisional filing fee 11451 1,510 1451 1,510 Petition to institute a public use proceeding								
SUBTOTAL (1) (\$) 385.00   1452   110   2452   55   Petition to revive – unavoidable								
1453 1,330 2453 665 Petition to revive - unintentional  2 FXTRA CLAIM FFFS FOR LITILITY AND REISSUE 1501 1,330 2501 665 Utility issue fee (or reissue)								
Extra Fee from 1502 480 2502 240 Design issue fee								
Claims below Fee Paid 1502 460 2502 240 Design issue fee  Total Claims 22 -20** = 3 x 9.00 = 18.00 1503 640 2503 320 Plant issue fee	$\vdash$							
Independent 6 3** = 3 3 43.00 = 129.00 1460 130 1460 130 Petitions to the Commissioner								
Claims								
Large Entity Small Entity 1806 180 1806 180 Submission of Information Disclosure Stmt								
Fee Fee Fee Fee Fee Pescription 8021 40 8021 40 Recording each patent assignment per								
1202 18 2202 9 Claims in excess of 20 1809 770 2809 385 Filling a submission after final rejection								
1201 86 2201 43 Independent claims in excess of 3 (37 CFR 1.129(a))	$\vdash$							
1203 290 2203 145 Multiple dependent claim, if not paid 1610 770 2610 366 examined (37CFR 1.129(b))								
1204 86 2204 43 ** Reissue independent claims over original patent 1801 770 2801 385 Request for Continued Examination (RCE)								
1205 18 2205 9 **Reissue claims in excess of 20	$\vdash$							
Other fee (specify)								
SUBTOTAL (3) (\$) 292.00 SUBTOTAL (3) (\$) *Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) **or number previously paid, if greater, for Reissues, see above	0.00							
SUBMITTED By (Complete (if applicable))								
Name (Print/Type) Debra . Milasincic Registration No. Pattorney/Agent) 46,931 Telephone (617) 227-7400	)							
Signature Date November 4, 2	<del></del>							
Date INOVERTIDE 4, 2								
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Dated: November 4, 2003 Signature:								
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Specification (44 pages) 12 Drawings (9 sheets)

Nucleotide and/or Amino Acid Sequence Disk Specification Sequence Listing on paper (4 pages) Utility Patent Application Transmittal (1 page)

Application Data Sheet (3 pages)

Statement Pursuant to 37 CFR 1.821(b) (2 pages)

Fee Transmittal (1 page)